UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF COMMERCIAL FISHERIES
BIOLOGICAL LABORATORY
P. O. BOX 6121, PT. LOMA STATION
SAN DIEGO 6, CALIFORNIA

Sea-surface Temperature Charts, Eastern Pacific Ocean
March 1960

Prepared by

The Staff of the Bureau of Commercial Fisheries
Biological Laboratory, San Diego, California

Acknowledgments

The following organizations and stations contributed data for the March 1960 charts:

U. S. Weather Bureau, San Diego, California
U. S. Navy Fleet Weather Facility, North Island, San Diego, California
U. S. Naval Communication Station Balboa, Fort Amador, Canal Zone
U. S. Navy Branch Hydrographic Offices, Honolulu, Hawaii, Seattle, Washington, San Francisco, California and Wilmington, California
U. S. Coast Guard, Port Hueneme Light Station, Port Hueneme, California
U. S. Bureau of Commercial Fisheries, Honolulu, Hawaii
Hopkins Marine Station, Pacific Grove, California, by J. P. Balesteri
Humboldt State College by George Allen
Inter-American Geodetic Survey by Rene Cortes at Salina Cruz, Mexico, David Ortega at Manzanillo, Mexico, Romeo Valencia at Pt. San Jose, Guatemala, Lule Lynch at Pt. Armuelles, Panama, V. E. Castillo at Tumaco, Colombia, Gualberto Tapia at San Cristobal, Galapagos, Jose Lanchimba at La Libertad, Ecuador, Raul Celis at San Juan, Peru, L. Meza and C. Gamarra at Talara, Peru
Inter-American Tropical Tuna Commission, La Jolla and Terminal Island, California
Kelco Company, San Diego, California
Newport Beach Life Guard Service, Balboa, California, by R. L. Moore
Oregon State College by Bruce Wyatt
Pacific Oceanographic Group, Nanaimo, B. C., by H. J. Hollister from observations by J. Cunningham at Kains Island Light, J. A. Bournazel at Cape St. James Light, E. A. Hartt at Langara Island Light, and B. Stuart at Amphitrite Point Light
Scripps Institution of Oceanography, La Jolla, California, by Margaret Robinson and Hans Klein
Ships HMCS Sussexvale, Frances Salman, Trolleggen and Captain Kamdron of the Avila and Captain Tompter of the Santa Maria
Tuna Clipper Mary Barbara

Contents

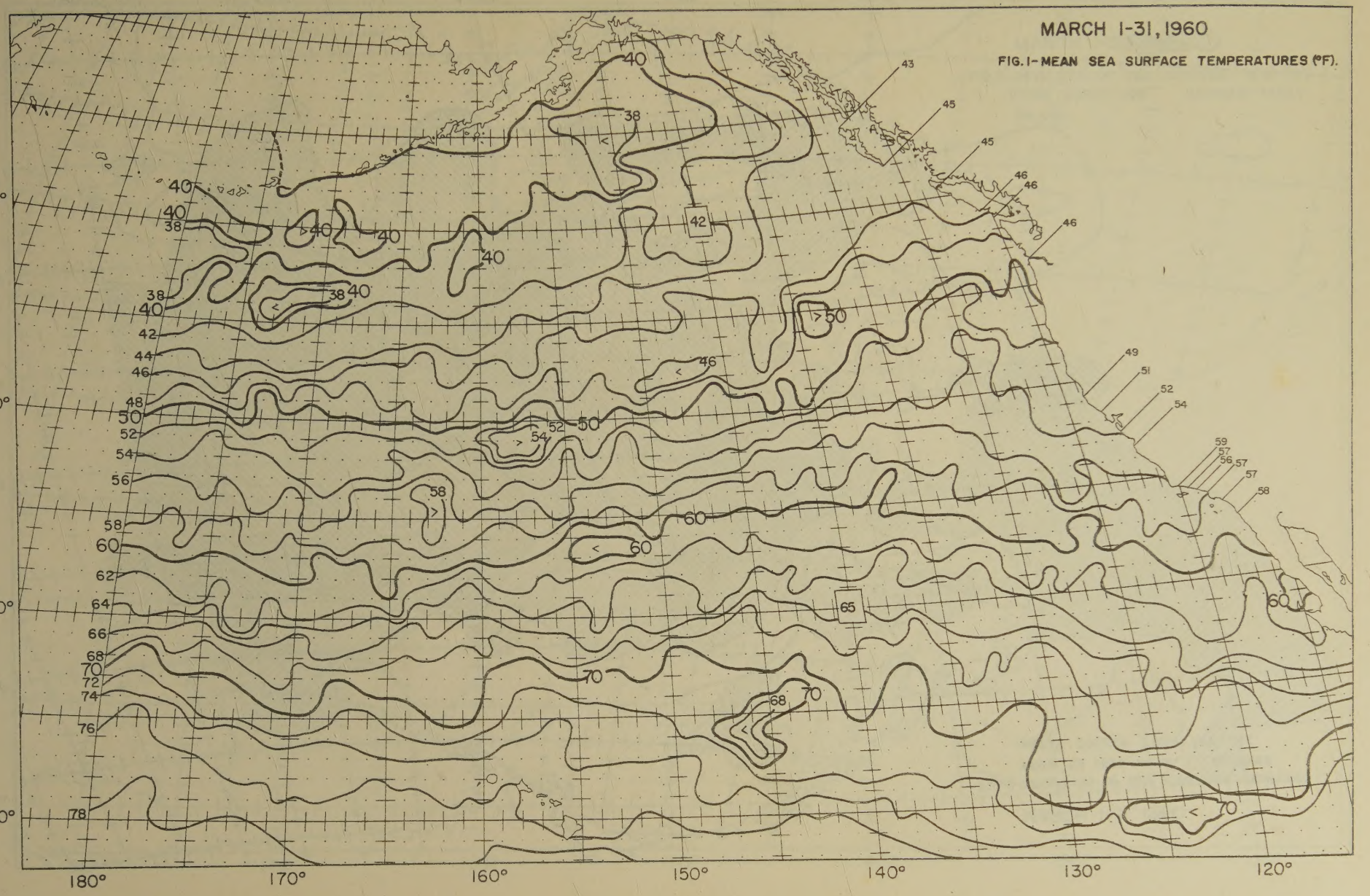
Figure 1.--Mean sea-surface temperatures (°F) derived from approximately 8000 observations. Squares show temperature at weather-ship stations. Numerals on shore are temperatures at coastal and light stations.

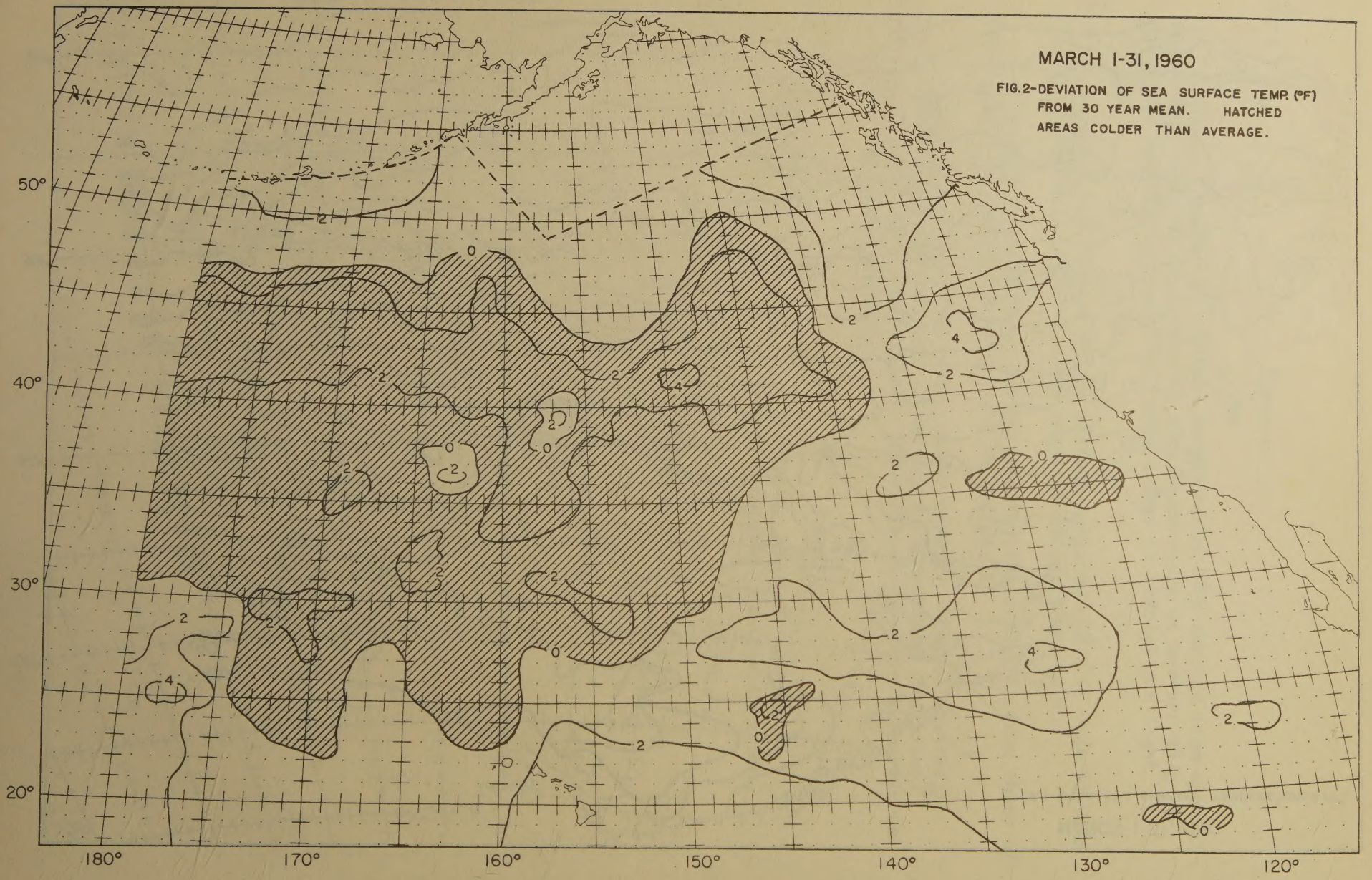
Figure 2.--Deviation of sea-surface temperatures (°F) from 30-year mean charts of H. O. 225. Hatched areas are colder than mean.

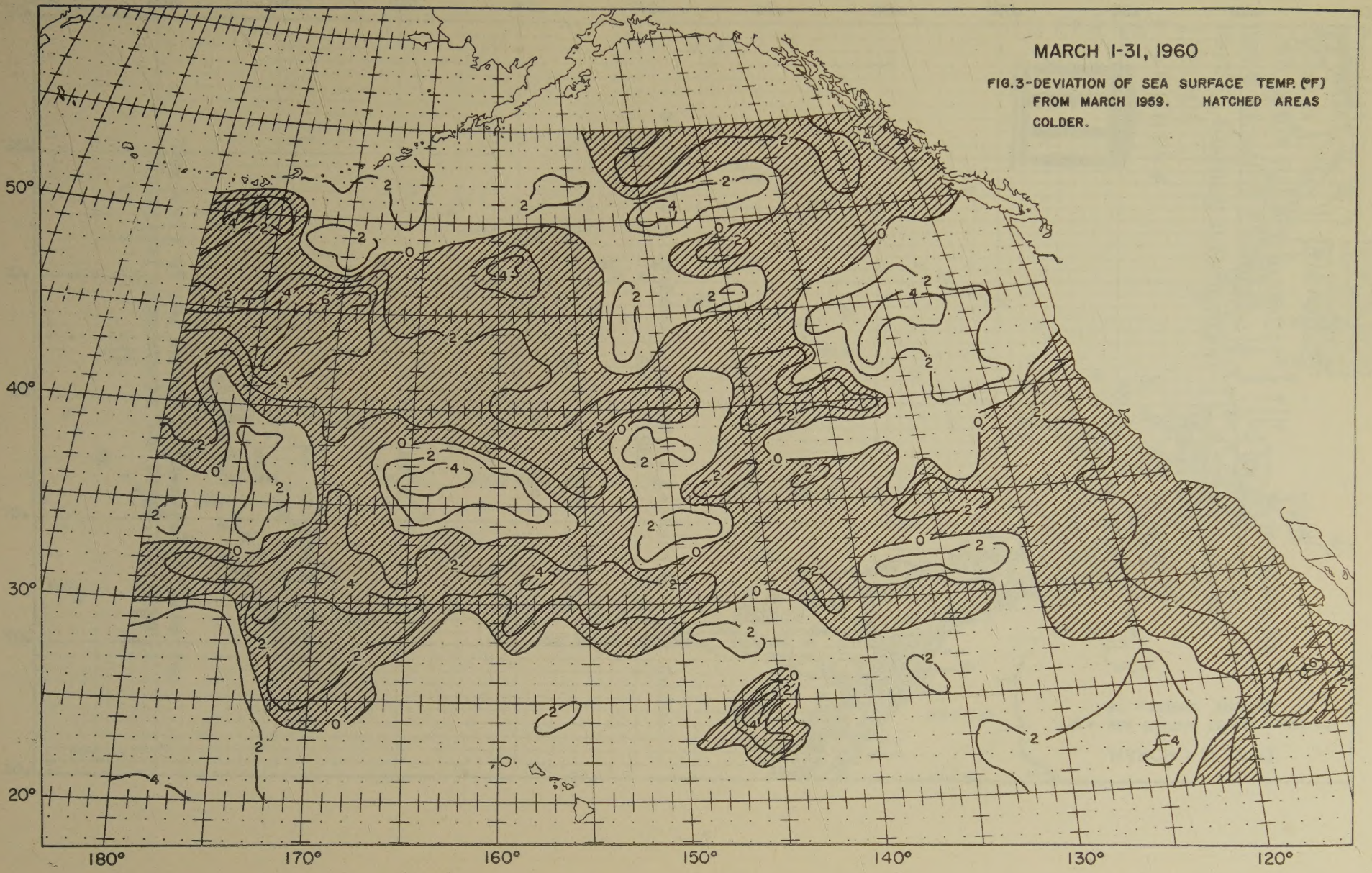
Figure 3.--Deviation of sea-surface temperatures (°F) from those of March 1959. Hatched areas are colder than 1959.

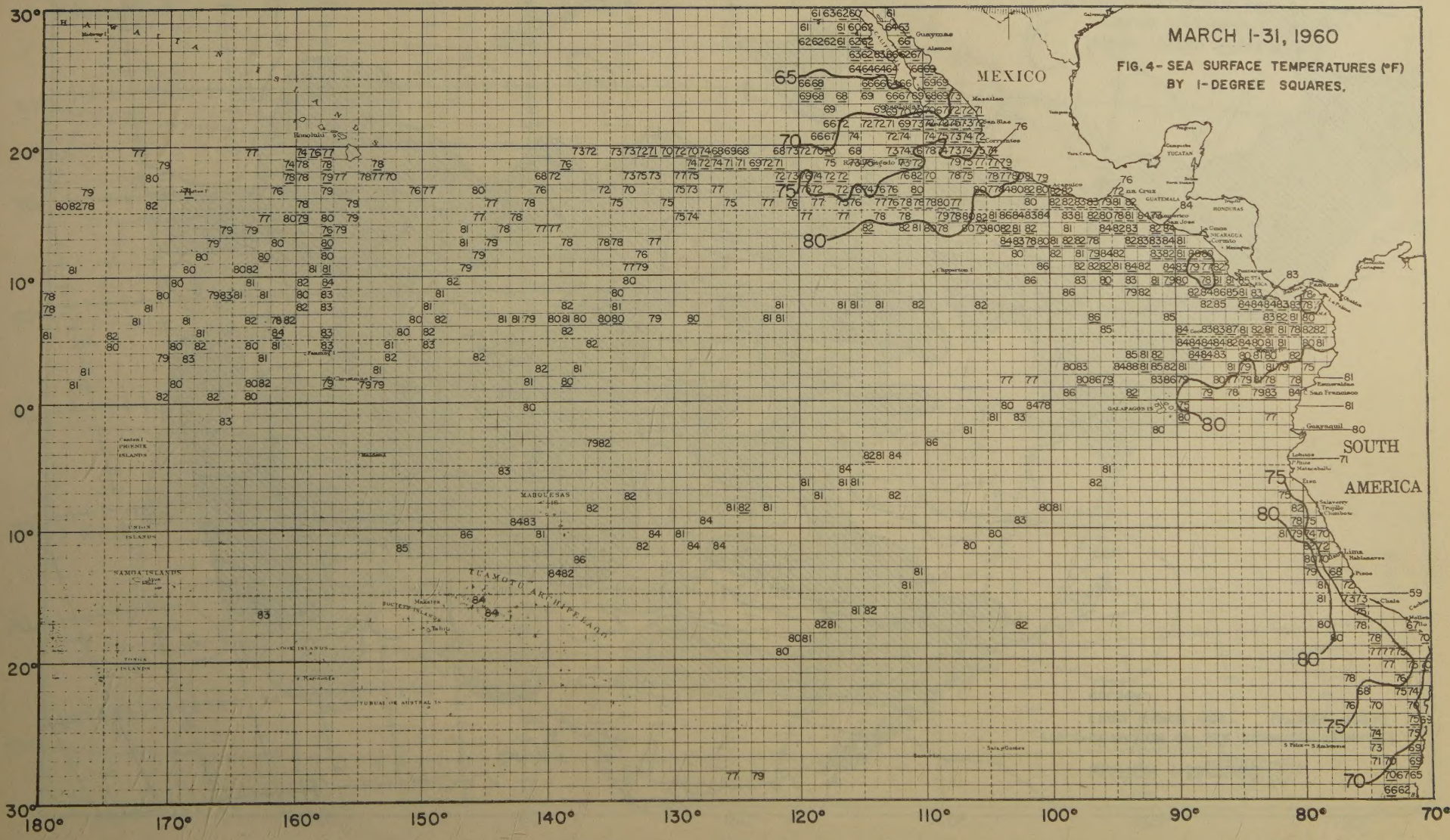
Figure 4.--Sea-surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal and light stations.

James H. Johnson, Chief
Tuna Forecasting Investigation


MARCH 1-31, 1960
FIG. 1- MEAN SEA SURFACE TEMPERATURES (°F).
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


MARCH 1-31, 1960
FIG.2-DEVIATION OF SEA SURFACE TEMP. (°F) FROM 30 YEAR MEAN. HATCHED AREAS COLDER THAN AVERAGE.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


MARCH 1-31, 1960
FIG.3-DEVIATION OF SEA SURFACE TEMP. (°F) FROM MARCH 1959. HATCHED AREAS COLDER.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


MARCH 1-31, 1960
FIG. 4 - SEA SURFACE TEMPERATURES (°F) BY 1-DEGREE SQUARES.
MEXICO
SOUTH AMERICA
30°
20°
10°
0°
10°
20°
30°
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°